

ABSTRACT

A method of controlling an optical signal having a first wavelength, includes passing the optical signal through a device, the device substantially transparent to the first wavelength; and selectively illuminating the device with an optical signal at a 5 second wavelength, illumination of the device by the second wavelength causing alteration of optical properties of the device relative to the first wavelength. An optically controlled optical filter, includes a semiconductor film whose transmission of a first optical wavelength varies with illumination at a second optical wavelength.